- b. Said dual stereo 2X e-Mirrors on top ODO panel plus dual rear comer proximity views LCD e-Mirrors attached on left and right side of central rear glass mirror, forming 4 X e-Mirrors, (fig 9C);
- c. Said dual stereo 2X e-Mirrors on top ODO panel plus triple rear views e-Mirrors mounting on central dash top, forming panoramic 5 X e-Mirrors to view all proximity views surround your vehicle (fig 9F) camera.
- 26. (New) the day and night owl's eye camera of claim 23, comprising:
- a set of ultra large optical iris lens, twice size of regular lens (fig 4A), characterized ultra night vision like owls eye;

an actual size viewing angle lens, having natural human viewing character, and fast speed, ultra low distortion optical character to insure safety view accuracy; an ultra sensitive CCD chip, 4 times sensitive over regular CCD, 7 times over CMOS camera, workable under 0.3 lux ambient light that equivalent to little moon light;

an advanced DSP digital signal processor having signal to noise ratio over 60db, and dark night video definition 16 times better than regular 48db DSP an auto shuttle control circuit, speed range from 1/50 up to 1/10,000, making possible to view at ambient light from over 10,000 lux burning hot sunlight down to merely 0.3 lux little moonlight;

whereby said owl's eye camera produces remarkable high optical definition, accurate, sharp actual view size, and be able to view clear object at no matter suburban dark night without city light or under blazing sunlight at summer noontime.

27. (New) An open architecture design to shrink a camera as small as thumb nail (fig 3A, 3B), comprising:

A thumbnail size front end module, having micro water proof enclosure, lens and CCD sensor Chip inside; a back end module, having driving circuit PCB board module, output connectors and switch; a high frequency bandwidth cable with detectable connectors at both end to connect said front end module to said back end module;

whereby to shrink a camera as small as thumb nail size, and weight with its mount together merely 1 OZ, making a new record of world's smallest waterproof precision CCD camera, and totally enabling flexible surface mount technique.

- 28. (New) The front end module of claim 27, a key precision component, comprise:
- a set of large iris precision lens;
- a sensor attached at back of said lens:
- a water proof and UV ultra violet proof thumb nail size enclosure, also featured as lens holder, a hidden anti stealing method solution for said open architecture camera.

Thereby to remove conventional large foot print stand-alone lens holder and to squeeze size of total assembly much smaller.

- 29. (New) The hidden anti stealing method solution of claim 28, comprising steps of :
- a. Keeping said backend module of open architecture camera under hood or inside a vehicle, from visible:
- b. activating sensor broken wire alarm;
- c. Providing low cost components to users who got stolen for their plug and play quick replacement;
- d. Keeping stolen partial proprietary module not usable nor sellable without said back end module having a code matched technique; whereby to discourage thief from stealing again.
  30. (New) A technique method for manufacturing a camera gripper to ultra light weight (merely 0.1 OZ) for surface mount said thumb nail size camera, comprising the steps of:
- a. Drawing an "O" ring shape gripper in 2D sheet metal format, having an "O" clamp shape at top, a U shape leg at middle, a footpad at bottom for vertical sticking mount (see fig 7B, 7D);

- b. Cutting a piece of soft thin rust-less sheet metal according to said "O" ring gripper 2D drawing;
- c. Finger bending and forming said sheet metal "O" ring gripper;
- d. Putting double sides sticky adhesive material or a Velcro on said footpad of said "O" ring gripper:
- e. Holding said thumb nail camera with said "O" ring gripper with a giving tool less screw;
- f. Sticking said "O" ring gripper with said owl's eye camera on 4 corners of your vehicle, near 4 turning lights;
- whereby surface mounts are done without drilling screw holes nor tools, no hurting shiny surface finish of any new vehicle or used vehicle.
- 31. (New) A technique method for surface mount 3 of the owl's eye cameras to obtain best rear proximity views of any vehicle, comprising steps of:
- a. Sticking 2 of said "O" ring gripper with camera to free spot nearby 2 rear turning signal lights of a vehicle:
- b. Sticking 1 said "O" gripper with camera to central spot of your vehicle for straight back view (drawing 07);
- c. Sliding in said wiring cable with backend module of the cameras to back trunk of your vehicle via nearest cover gap or rear door gap, thereby hiding said backend modules inside back trunk or underneath of a vehicle;
- d. Tilting said "O" gripper soft leg with camera to point at diagonal opposite corner side (see fig 6C):
- e. Wiring rear corner camera video output to opposite side of a central 3 X LCD e-Mirror, rear left comer camera to a right LCD e-Mirror, rear right comer camera to a left LCD e-Mirror;
- f. wiring rear central camera to the middle LCD e-Mirror;
- g. Leveling all 3-rear views by rotating cameras and bending said "U" shape leg of the "O" ring gripper;
- h. Taking little edge view of your vehicle body rear comer for rear proximity view, and applying on both rear corner cameras (see fig 9E);
- i. Switching on mirror function at the backend modules of all 3-rear cameras; whereby obtaining a full 180 degree panoramic proximity rear view.

Permes Sin June 7th 2005 wenter: Raymond Spybermen

End ----

Thanks a lot.

Romeo Linn

Ray Spykerman